UNCRATING/INSTALLATION INSTRUCTIONS

Basil® 3500 Cage and Bottle Washer

(2006-06-14) **P122996-977**

A WORD FROM STERIS CORPORATION

Follow each step of *UNCRATING/INSTALLATION INSTRUCTIONS* **in the order presented**. Open crate(s) carefully to avoid damage to equipment inside. If you find any indication of damage to equipment (no matter how slight), show it to your supervisor.

To properly install this unit, you will need equipment drawings (previously furnished), showing all utility service and space requirements. If drawings cannot be located, replacement copies may be obtained by writing, faxing or telephoning STERIS, giving serial and model numbers of your unit.

Once installed, unit operation should be tested by a STERIS-trained service technician prior to your equipment usage.

Advisory

***IMPORTANT: Basil® 3500 Cage and Bottle Washer** is specifically designed to only process goods as outlined in this manual.*

A listing of *Safety Precautions* to be observed when uncrating, installing and testing this equipment can be found in *SECTION 1* of this manual. Do not begin uncrating/installing equipment until you have become familiar with this information.

Any alteration of this equipment not authorized or performed by STERIS could void the warranty, adversely affect its efficacy, and violate national, state, and local regulations.

STERIS supervision is recommended for installing and starting up this equipment. Contact STERIS for information on this service.

***IMPORTANT:** Be sure to verify the Occupational Health and Safety Act, as well as local electric and plumbing codes, for any special requirements that may pertain to installation of this unit.*

Indications for Use

Basil 3500 Cage and Bottle Washers are specifically designed for thorough, efficient cleaning of cages, bottles, debris pans and miscellaneous items used in the care of laboratory animals.

This washer is specifically designed to only process goods as outlined in Operator Manual (P122998-741). If there is any doubt about a specific material or product, contact product manufacturer for recommended washing technique.

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Service Information

A thorough preventive maintenance program is essential to safe and proper unit operation. Customers are encouraged to contact STERIS concerning extended service maintenance agreements to give their washer planned maintenance ensuring equipment performance according to factory specifications.

A global network of skilled service specialists can provide periodic inspections and adjustments to help ensure low-cost peak performance. STERIS representatives can provide information regarding annual maintenance agreements.

STERIS carries a complete line of accessories for use in this equipment. Please contact STERIS for details.

Manufacturer: Corporation STERIS Canada Beauport, Qc, CANADA	ISO 13485 ISO 9001 Certified Facility

The base language of this document is ENGLISH. Any translations must be made from the base language document.

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SAFETY PRECAUTIONS

1

The following *Safety Precautions* **must** be observed when uncrating, installing and testing this Basil® 3500 Cage and Bottle Washer. WARNING indicates potential for personal injury and CAUTION indicates potential for damage to equipment. For emphasis, certain *Safety Precautions* are repeated throughout the manual. **It is important to review ALL *Safety Precautions* before uncrating and installing the unit.**

WARNING – PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD:

⚠ Use a forklift to move unit.

WARNING – LACERATION HAZARD:

⚠ Wear gloves to protect your hands when removing bolts.

WARNING – BURN HAZARD:

⚠ Allow piping to cool before inspecting piping and/or cleaning supply line strainers or valves.

⚠ Except for an emergency, do not open door when cycle is in progress. In a emergency, first stop cycle by pressing STOP touch pad and wait for water flow to stop. Wear appropriate Personal Protective equipment (PPE) whenever reaching into chamber.

⚠ When checking automatic stop feature, wear appropriate Personal Protective equipment (PPE) and open chamber door slowly. Hot water/steam may be sprayed through door opening if door is opened during a cycle.

WARNING – SLIPPING HAZARD:

⚠ To prevent slips, keep floor dry. Promptly clean up any spills or condensation. If spilled liquids are detergents or other chemicals, follow safety precautions and handling procedures set forth on detergent or chemical label and/or Material Safety Data Sheet (MSDS).

CAUTION – POSSIBLE EQUIPMENT DAMAGE:

⚠ Once three-phase power is connected, check pump for correct rotation. Incorrect pump rotation may result in pump damage and improper cleaning action.

⚠ When removing adhesives from stainless steel, use a solvent specially formulated for that purpose. Rub in a back-and-forth motion (in same direction as surface grain). Solvent rubbed in a circular motion or applied with a wire brush or steel wool on door and chamber assemblies can be harmful to stainless steel. Do not use solvents on painted surfaces.

The tables below contain symbols which may be on your Basil 3500 Cage and Bottle Washer components:

Table 1-1. Symbols on Crate

Symbol	Definition
	Tip Indicator. "If TIP 'N TELL arrow point is blue, this package has been on its side or tipped over in transit. Make note on the bill of lading and check for damage. Any claims for tipping will be based on this notation."
	This Side Up.
	Maximum Relative Humidity.
	Keep Dry.
	Fragile.
	Do Not Stack.
	Maximum Temperature.
	Open This Side.
	Equipment contained in this crate is very heavy. Use a lift truck to move. Uncrate on a level floor, as near as possible to the final installation location.
	Personal injury and/or equipment damage hazard.
	Always use tools appropriated for the task to be performed.

Table 1-1. Symbols on Crate (Cont'd)

Symbol	Definition
	Always use tools appropriated for the task to be performed.
	Always use tools appropriated for the task to be performed.

Table 1-2. Definition of Symbols on Unit

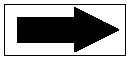
Symbol	Definition
	Protective Earth (Ground).
	Transfer of Heat, Hot Surface.
	Rotation: Direction of Rotation Device.
	Reset.
	CAUTION. High Voltage.
	ELECTRICAL EQUIPMENT. Authorized Personnel Only.
	WARNING. Disconnect Main Power switch before opening cover and working on electrical components.
	WARNING. For continued protection against fire hazard replace only with same type and rating of fuse.

Table 1-2. Definition of Symbols on Unit (Cont'd)

Symbol	Definition
	DANGER. Do not Operate Without Guards in Place.
	WARNING! Chemical Burn Hazard: Washer detergents are caustic... Read and follow the precautions... Wear protective gloves...
	WARNING. Burn Hazard. Surface May Be Hot
	CAUTION Always Cut OFF Electrical Supply Before Doing Any Repair.

Table 1-3. Definition of Symbols on Identification Nameplate

Symbol	Definition
MODEL	Model Number of The Unit.
S/N	Serial Number of The Unit.
YEAR	Year of Manufacture of The Unit.
kVA	Kilovolt-Ampere.
V_~	Volt, Number of Phase (3 or 1[blank]), Alternate Current.
A	Amperage.
Hz	Hertz – Frequency of The Unit.
WIRE	Number of Wires In The Electrical Cable (Ground Not Included).
PE	Protective Ground Wire.

UNCRATING INSTRUCTIONS

IMPORTANT: *A listing of the Safety Precautions to be observed when uncrating and installing this Cage and Bottle Washer can be found in SECTION 1. Do not install equipment until you have become familiar with this information.*

2.1 Open Crates

WARNING – PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD: Use a forklift to move unit.

WARNING – LACERATION HAZARD: Wear gloves to protect your hands when removing bolts.

NOTE: When opening crate, note the following:
1) Use a forklift to move equipment.
2) Uncrate on level floor as close to installation site as possible.

IMPORTANT: *Become familiar with components and installation instructions before installing washer.*

NOTE: Bring in and uncrate only one crate at a time.

1. Check tip indicator, located on upper left side of crate. Tip Indicator contains a blue compound at bottom of indicator. If unit has been tipped, residue from blue compound will be found higher up in indicator. If unit has been tipped, notify STERIS. A service technician will review equipment and determine if unit was damaged.
2. Position unit to open crate from top. Provide a clear work area on all sides.
3. Remove and discard wooden panels from top and sides of unit.
4. Remove and discard wooden frame from around unit.
5. Remove and discard polystyrene wrap from around unit.
6. For an assembled unit, go to *SECTION 2.3, MOVE WASHER AND REMOVE SKID.*

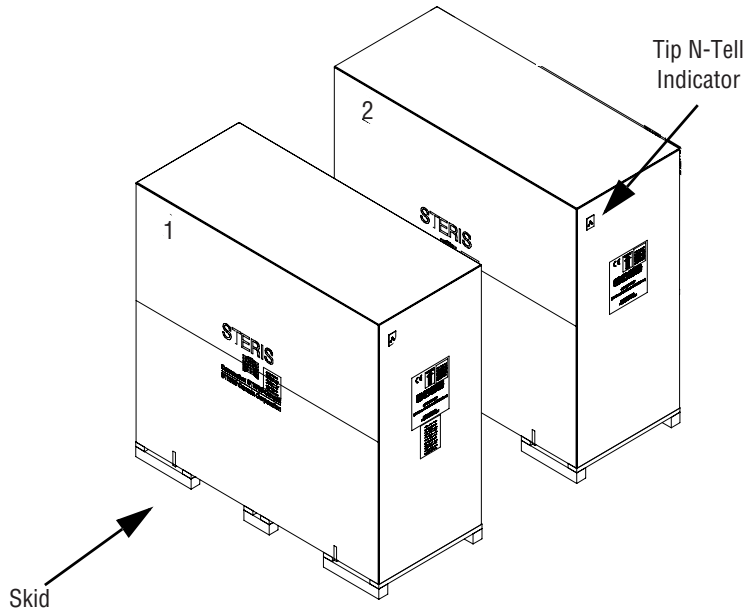


Figure 2-1. Crate(s)

WARNING – PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD: Use a forklift to move unit.

WARNING – LACERATION HAZARD: Wear gloves to protect your hands when removing bolts.

- **Disassembled Unit:**

NOTE: When uncrating unit, note the following:

1) *Bring in and uncrate only one crate at a time.*
2) *Major components in crates are numbered to assist in inventory and assembly of unit. Review crate contents by matching numbers on components to numbers in parenthesis ( ).*
3) *Bolts, washers, nuts, and other items needed for the assembly of unit are in a box labeled HARDWARE, inside Crate 2.*

A fully equipped, disassembled unit should consist of two crates:

- Crate 1 contents:
  - Frame and sump assembly (corners 1-4 and 2-3);
  - Top assembly (20)
- Crate 2 contents:
  - Two side panels: load side (6) unload side (7);
  - Control panel (5);
  - Control box (8);
  - Two stainless piping and two brass piping (9, 10, 11, 12);
  - Frame supports (21) [for 1, 2, 3, 4];
  - Six guides (22) for oscillating spray header;
  - Counterweights (23), two for single door units, four on double door units;
  - Door(s): load-side [for single door unit] (24), unload-side (25) [or back panel for single-door unit];
  - Service panels: service-side (26), nonservice-side (27);
  - Side panels (1, 4 and 2, 3);
  - Oscillating Spray header (28);
  - Flexible hose (29);
  - Two brackets (30) [for control box and side panels]
  - Guides taped on hardware box;
  - Envelope taped on hardware box containing:

    Manuals, Warranty Card, and Pre-In-Service form. Ensure appropriate person receives documentation.
  - Hardware box (P117942-853):

    Screws, bolts, washers, spring washers, wire connectors, silicone tubes, sealant gun, etc.
  - Insulating wool.

2.2 Disassembled Unit Assembly

⚠ WARNING – PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD: Use a forklift to move unit.

NOTE: Before uncrating washer, take note of the following:
1) Uncrate washer as close as possible to installation site.
2) Refer to equipment drawing and seismic anchorage report, for complete installation details.

1. Use a forklift to move top of unit from crate and set aside.
2. Use a forklift to move frame assembly (bottom part of washer). Remove four lag bolts securing washer base to skid. Install frame assembly in place. Each corner is numbered 1, 2, 3, and 4 to ease frame support installation.
3. Using a spirit level, level frame assembly (end-to-end and side-to-side). If necessary, lift assembly and adjust four leveling legs (one on each bottom corner of assembly). Lower assembly and verify level.
4. Cut tie-wraps to remove floor grate from sump and set aside.
5. Install unit sides as follows (see Figure 2-2):
   a. Install frame supports (1,4). Match support numbers with those on frame assembly.
   b. Apply a generous coat of silicone over sump walls, as shown on Figure 2-2
   c. Install left side panel. Secure left side panel to unit sump using four 5/16-18 x 3/4 bolts,
6. Repeat **Step 5** for right side wall. Use (2, 3) supports.

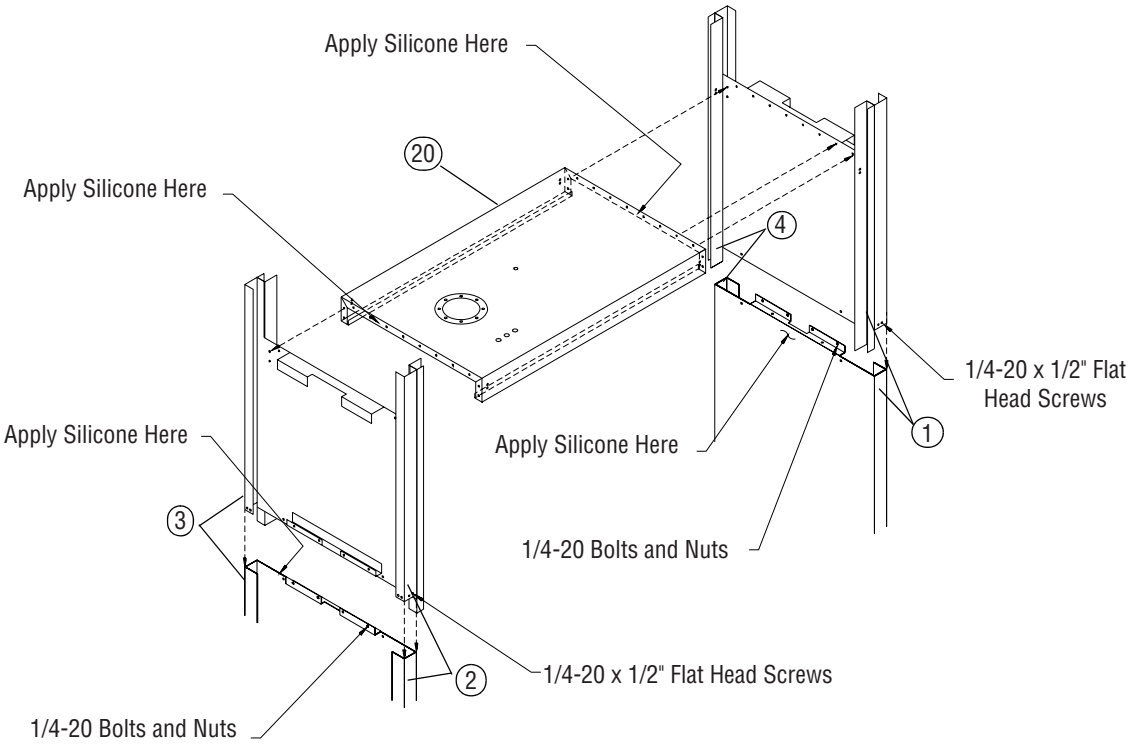


Figure 2-2. Sides and Top Installation

IMPORTANT: *Install oscillating spray header (28) into wash chamber before installing door(s) and/or back panel.*

7. Secure side walls to front and back of unit using sixteen 1/4-20 x 1/2 flat head screws, sixteen 1/4-20 bolts, and twelve 1/4-20 nuts provided.
8. Install unit top (20) as follows (see FIGURE 2-2).

   NOTE: A forklift is required to install top.

   a. Apply a generous coat of silicone on each side of top, before bolting it.

   b. Install top of unit, over sides. Secure with twenty-four 1/4-20 x 1/2" bolts and 1/4" flat washers provided.
9. Install oscillating spray header guides (22) inside wash chamber.
10. Install oscillating spray header (28).
11. Install unit door(s), chains, and counterweights (two for single door unit, four for double door unit) as follows (see FIGURE 2-3):

    a. From top of unit, slide door(s) into position.

    b. Remove tape securing chain over door slide edge.

    c. Position chain over gear; then on mounting bracket, tighten two bolts on gear to secure gear in place (see FIGURE 2-3).

    d. Repeat for each chain and gear.

    e. Lift door and secure open using a 2 x 4" piece of wood.

    f. Attach each chain to its counterweight, using chain link provided.

    g. Secure each counterweight sliding guide in position, using eight 10-32 x 1/4" screws and 1/4" lockwashers provided.

    h. Remove piece of wood and verify door for smooth operation.
12. Install piping (9-12). Match numbers on piping ends.
13. On exterior of unit, install load (6) and unload side panels (7).
14. Install control box (8) and control panel (5).
15. Connect flexible hose (29) from sump to oscillating spray header.
16. Install service panels (26, 27) (and back panel, if option applies).
17. Go to ***SECTION 3***, ***INSTALLATION INSTRUCTIONS.***

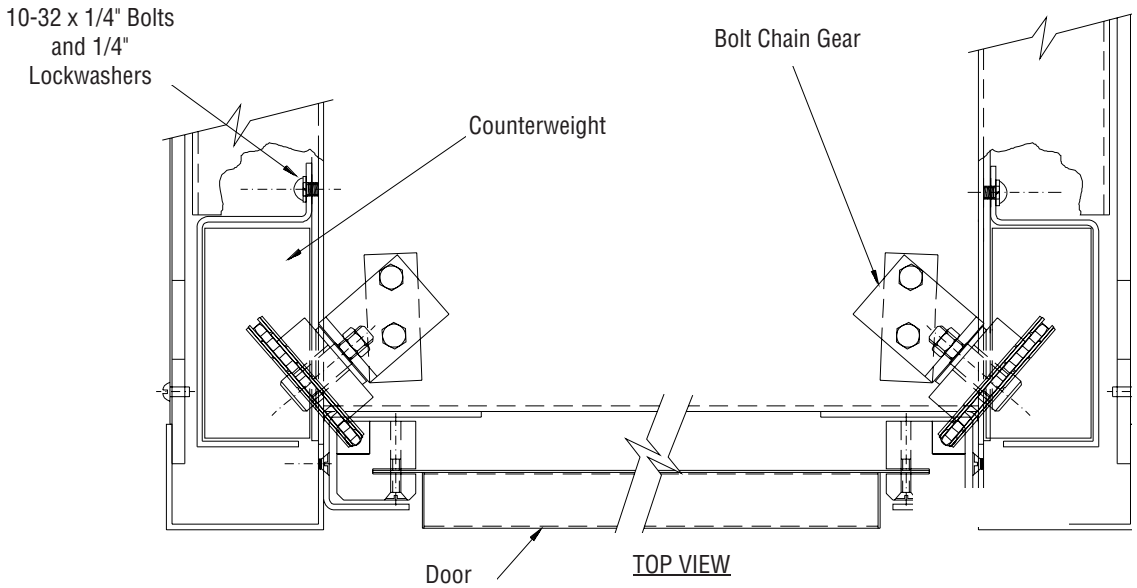


Figure 2-3. Install Chains and Counterweights

2.3 Move Washer and Remove Skid

- **Assembled units:**

NOTE: A fully equipped, assembled unit weighs approximately 2020 lb (916 kg).

1. With washer still mounted on skid, use a forklift to move washer to installation site.
2. Open lower service access doors (see FIGURE 2-4).
3. Verify tip indicator, located inside washer service compartment (bottom left side). If unit has been tipped, notify STERIS.
4. Remove four lag bolts securing washer base to skid.
5. Remove and discard skid from under washer. If necessary, use a piece of plywood as a small ramp to slide washer from skid to floor. See FIGURE 2-5.
6. Position washer in final location. Use tubing as rollers and roll washer into position.
7. Go to *SECTION 3*, *INSTALLATION INSTRUCTIONS.*

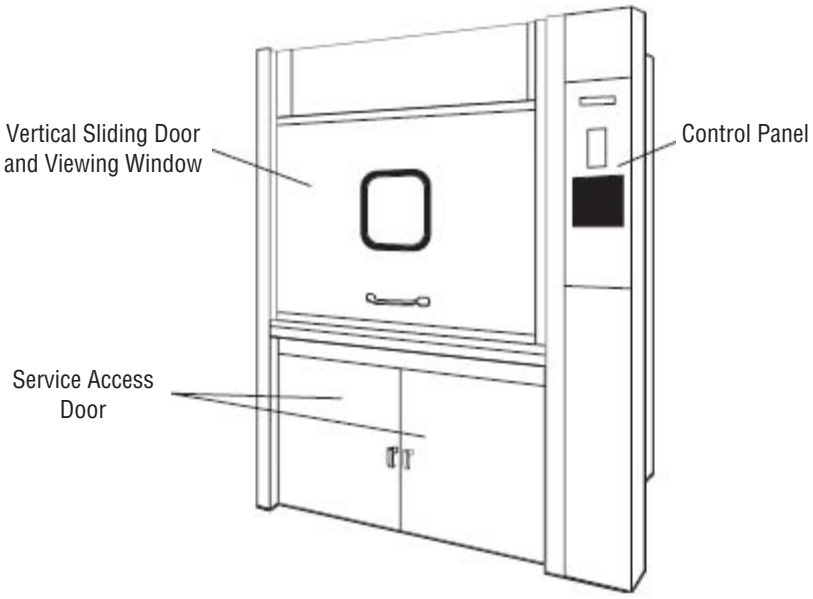


Figure 2-4. Basil 3500 Cage and Bottle Washer

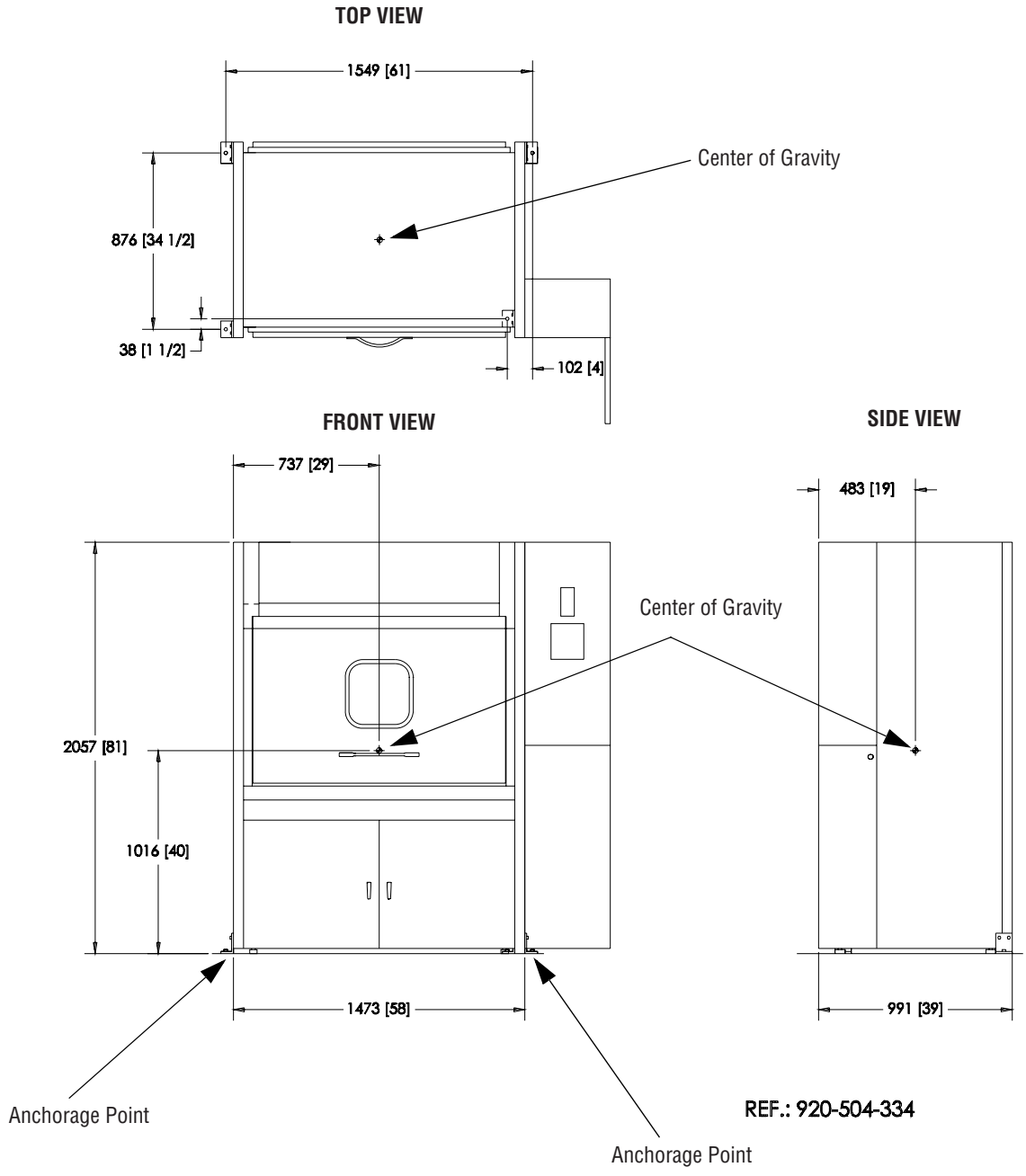


Figure 2-5. Center of Gravity

2.4 Prepare Washer for Installation

1. Remove all tape from washer.
2. Locate electrical box compartment keys (taped inside Main Control Panel). Give keys to department supervisor.
3. Operator Manual, Warranty Card, and pre-in-service form are enclosed in an envelope inside wash chamber. Ensure appropriate person receives documentation.
4. Before opening door(s), remove 1/4 - 20 x 4" counterweight retaining bolts (two on each door) to unlock counterweight (see FIGURE 2-6) and allow operation of door(s).
5. Discard all packing material removed during uncrating procedures.

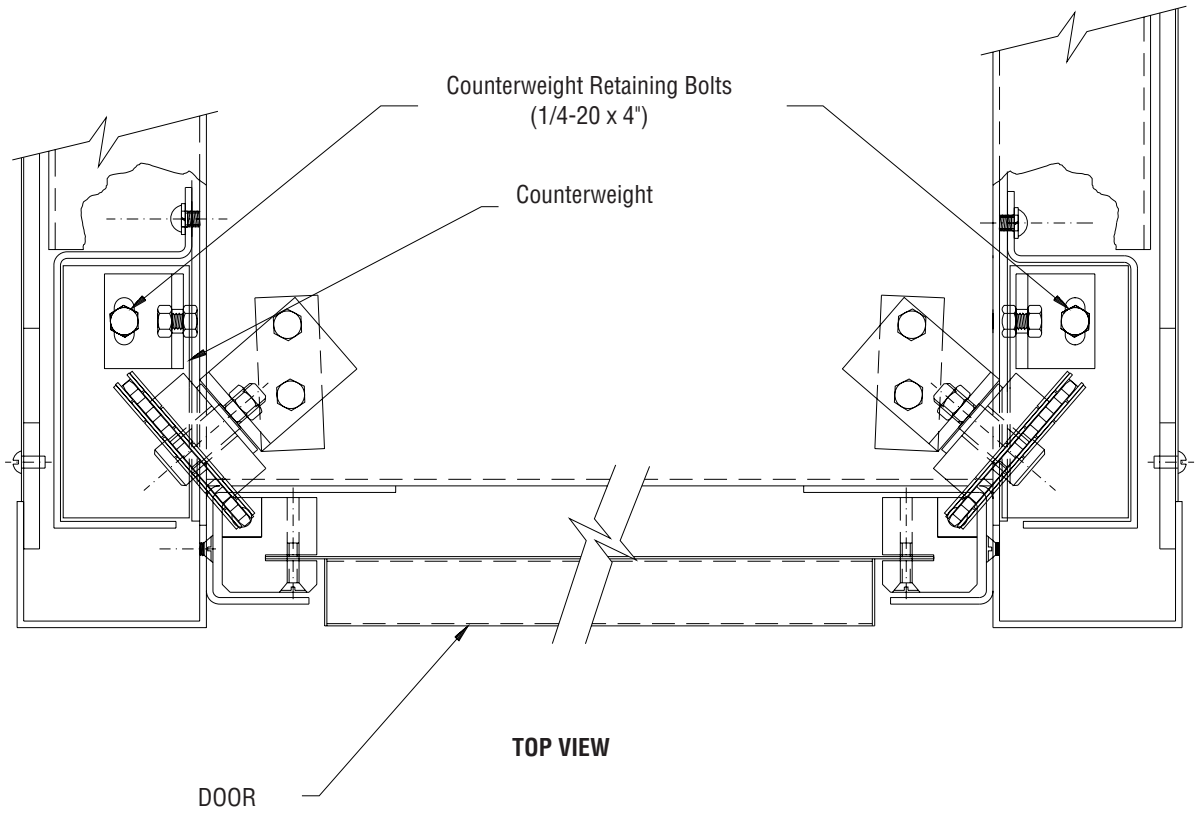


Figure 2-6. Remove Counterweight Retaining Bolts

IMPORTANT: *A listing of the Safety Precautions to be observed when uncrating and installing this Cage and Bottle Washer can be found in SECTION 1. Do not install equipment until you have become familiar with this information.*

3.1 Technical Specifications

These specifications are intended to describe technical information given on nameplate of your washer and to state other relevant information.

3.1.1 Voltage, Amperage and Power Consumption

Basil® 3500 Cage and Bottle Washer operates on:

- Steam-Heated units:

  208 V, 60 Hz, 3-phase;

  480 V, 60 Hz, 3-phase.
- Electric-Heated units:

  480 V, 60 Hz, 3-phase.

A protective ground is required (Class 1 Equipment).

Maximum currents and power consumptions are indicated on nameplate.

Main supply voltage not exceeding ± 10% of nominal voltage.

Installation category: Overvoltage category II.

Always follow local electrical installation codes.

3.1.2 Permissible Environmental Conditions

This equipment is designated to give optimal results under the following conditions:

- Indoor use only;
- Altitude of operation up to: 6,265 ft (2,000 m);
- Maximum relative humidity is 80% for temperatures up to: 88°F (31°C) decreasing linearly to 50% relative humidity at 104°F (40°C);
- Pollution degree 2.

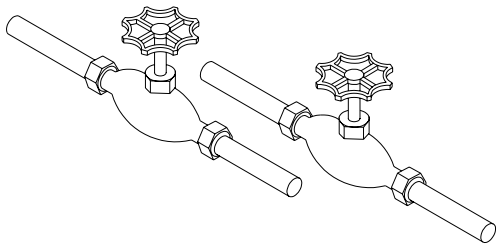
3.1.3 Seismic Anchorage System

A Seismic Anchorage System is available for high risk seismic zones.

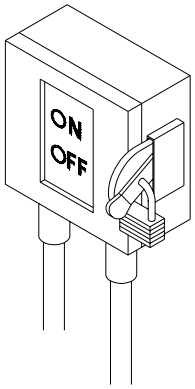
3.2 Installation Requirements

Review installation requirements:

1. Clearance space shown on equipment drawing is necessary for easy installation, proper operation and maintenance of washer.
2. Refer to equipment drawing for barrier wall flange(s) installation.
3. Utility service lines:
   - To allow service of unit without shutting off building supply lines, shutoff valves (not provided by STERIS) should be installed on steam and water lines to unit. Shutoff valves must be capable of being locked in OFF position only.
   - Disconnect switches (not provided by STERIS) should be installed in electric supply lines near washer (see FIGURE 3-1). Disconnect switches must be capable of being locked in OFF position only.
   - If this machine is installed next to other equipment, shutoff valves and disconnect switches should be located so that service can be shut off to one piece of equipment at a time.
   - Utility service requirements are shown on equipment drawing. This machine requires either 208 volts, 60 Hz, 3-phase, 3-Wire; or 480 volts, 60 Hz, 3-phase, 3-wire.
   - Check equipment drawing or nameplate for proper voltage and amperage.
   - A protective conductor terminal is required (Class 1 Equipment).
4. Floor under unit is a noncombustible surface.
5. Wall behind unit (if applicable) is a noncombustible surface.
6. Always follow local electrical codes and safety-related work practices for wiring. Wire gauge should be appropriate to rating of disconnect switch.



Shut Off Valves



Disconnect Switch

Figure 3-1. Utility Service Connections

3.3 Installation

1. Place washer, as shown on equipment drawing, in correct relation to building supply lines. If unit is not at installation site, refer to *SECTION 2, UNCRATING INSTRUCTIONS*, for proper moving instructions.
2. Verify washer is level:
   - Place a spirit level inside washer chamber.
   - Level washer, end-to-end and side-to-side, using leveling legs located at base of washer.
3. Open lower access panels.

3.4 Connect Utilities

1. **COLD WATER** (Option) - Purge building cold-water supply line to remove chips, scale, etc. Connect line to washer. Cold-water line is required for cold water pre-wash option and drain discharge cool down.
2. **HOT WATER** - Purge building hot-water supply line to remove chips, scale, etc. Connect line to washer, at top of unit.
3. **STEAM** (Option) - Purge building steam supply line to remove chips, scale, etc. Connect line to washer, at top of unit. Steam line is required for wash chamber.
4. **STEAM RETURN** (Option)- Connect washer steam return line to building steam condensate return piping.
5. **WASTE** - Connect washer drain line to building waste line.
6. **VENTILATION** (Option) - Connect washer ventilation to a dedicated building exhaust.
7. **COMPRESSED AIR** - Connect unit air connection to building air supply line.
8. **ELECTRIC** - Connect washer to building electrical supply. Verify tight electrical connections.
9. Open building supply valves and check for leaks. Correct if necessary.

3.5 Cleanup

CAUTION – POSSIBLE EQUIPMENT DAMAGE: When removing adhesives from stainless steel, use a solvent specially formulated for that purpose. Rub in a back-and-forth motion (in same direction as surface grain). Solvent rubbed in a circular motion or applied with a wire brush or steel wool on door and chamber assemblies can be harmful to stainless steel. do not use solvents on painted surfaces.

1. Remove any adhesive found on panels and inside chamber with a suitable solvent. Keep solvents away from all painted surfaces or damage may result.
2. Inspect work area to ensure all materials used during installation have been removed.

THIS COMPLETES THE INSTALLATION. Contact STERIS to schedule a service technician to test your installation and show persons designated how to operate equipment. Refer to *OPERATOR MANUAL (P122998-741)*.

INSTALLATION VERIFICATION

4

IMPORTANT: *A listing of the Safety Precautions to be observed when uncrating and installing this Cage and Bottle Washer can be found in* SECTION *1. Do not install equipment until you have become familiar with this information.*

4.1 General

An equipment drawing, showing all utility and space requirements, was supplied with washer. Clearance space specified on equipment drawing is necessary for ease of installation and to ensure proper operation and maintenance of equipment. If documents are missing or misplaced, contact STERIS giving serial, equipment, and model numbers of the unit. Replacement copies will be sent to you promptly.

4.2 Installation Checklist

After your washer has been installed by qualified service technicians, complete the following checklist to ensure installation is complete and correct. If you desire, contact STERIS and schedule a technician to test installation and demonstrate proper equipment operation.

- ❑ Lockable shut-off valves (not provided by STERIS), for maintenance purposes, are installed in steam and water lines in compliance with local occupational health and safety regulations, as well as electric and plumbing codes.
- ❑ Disconnect switch (not provided by STERIS), for maintenance purposes and capable of being locked in OFF position only, installed in electric supply line in same room as washer, and in compliance with local occupational health and safety regulations, as well as electric and plumbing codes.

  NOTE: If unit is installed next to other equipment, shutoff valves and disconnect switches should be located so that service can be shut off to one piece of equipment at a time.
- ❑ Washer is positioned, as shown on equipment drawing, with required service clearance space and in relation to building supply lines.
- ❑ Washer is installed between two walls with a key-locked service door so service side is not accessible to operators.
- ❑ Building steam line provides maximum dynamic steam pressure and flow rate to washer as specified on equipment drawing.
- ❑ Drip leg with steam trap installed in steam supply line.
- ❑ Building hot water line supplies water to washer at pressure and temperature specified on equipment drawing.
- ❑ If applicable, building cold water line supplies water to washer at pressure specified on equipment drawing.
- ❑ If applicable, building steam line supplies steam to washer at pressure specified on equipment drawing.

- ❑ Electrical supply for washer is as specified on equipment drawing.
- ❑ Condensate return (if applicable) is sized as specified on equipment drawing.
- ❑ Vent connection (if applicable) is sized as specified on equipment drawing.
- ❑ Recirculation pump pressure is within 25 to 60 psig. Pump rotates in direction shown by arrow.
- ❑ Self-cleaning screen assembly functioning properly.
- ❑ Header drive system functioning properly.
- ❑ All piping is leak-free and cabinet joints are completely sealed, no leaks. (Check by running machine for 1/2 hour.)
- ❑ Door safety switch(es) functioning properly.

IMPORTANT: *After a few weeks of operation, inspect units for leaks. Retighten all clamps and connections.*

OPERATIONAL TEST

5

IMPORTANT: *A listing of the Safety Precautions to be observed when uncrating and installing this Cage and Bottle Washer can be found in SECTION 1. Do not install equipment until you have become familiar with this information.*

WARNING – BURN HAZARD:

- **When checking automatic stop feature, wear appropriate Personal Protective Equipment (PPE) and open chamber door slowly. Hot water/steam may be sprayed through door opening if door is opened during a cycle.**
- **Except for an emergency, do not open door when cycle is in progress. In an emergency, first stop cycle by pressing STOP touch pad and wait for water flow to stop. Wear appropriate Personal Protective equipment (PPE) whenever reaching into chamber.**
- **Allow piping to cool before inspecting piping and/or cleaning supply line strainers or valves.**

CAUTION – POSSIBLE EQUIPMENT DAMAGE: Once three-phase power is connected, check pump for correct rotation. Incorrect pump rotation may result in pump damage and improper cleaning action.

WARNING – SLIPPING HAZARD: To prevent slips, keep floor dry. Promptly clean up any spills or condensation. If spilled liquids are detergents or other chemicals, follow safety precautions and handling procedures set forth on detergent or chemical label and/or Material safety Data Sheet (MSDS)

Test procedure included in this section should be performed by a STERIS or STERIS-trained service technician prior to normal operation of equipment.

1. Open chamber door.
2. Verify wash chamber is empty and all packing material has been removed.
3. Close door, ensure **POWER OFF/STANDBY** rocker switch is in **POWER** position.
4. Press **SELECT CYCLE** touch pad, then press **START** touch pad. Let cycle run approximately 15 seconds to clear piping system of any foreign matter.
5. Verify pump rotation. Pump should turn in direction shown by arrow. If pump is rotating in wrong direction, disconnect main power, reverse any two 3-phase wires and recheck shaft rotation.
6. Wear appropriate Personal Protective Equipment (PPE), verify automatic stop feature.
   a. Being careful of hot water escaping, open front (load-side) chamber door. Automatic Stop should shut off all service to chamber. Press **ALARM REPLY** touch pad to silence buzzer.
   b. If double-door unit, close door and press **START**. Open back (unload-side) chamber door (if option applies). Automatic Stop should shut off all service to chamber. Press **ALARM REPLY** touch pad to silence buzzer.
7. Remove four bolts securing self-cleaning filter flange in position. Remove filter cartridge and clean under water. Replace filter cartridge inside self-cleaning filter and secure flange with four bolts removed previously.
8. Close door and press **START** touch pad to resume cycle. Inspect piping assembly for leaks. If any leaks occur, press **STOP** touch pad, tighten hose connections and press **START** again.
9. Allow cycle to run to completion. Verify that display shows:

PLEASE OPEN DOOR
AND REMOVE LOAD

10. Open door and unload chamber.

WASHER IS NOW READY FOR NORMAL OPERATION.